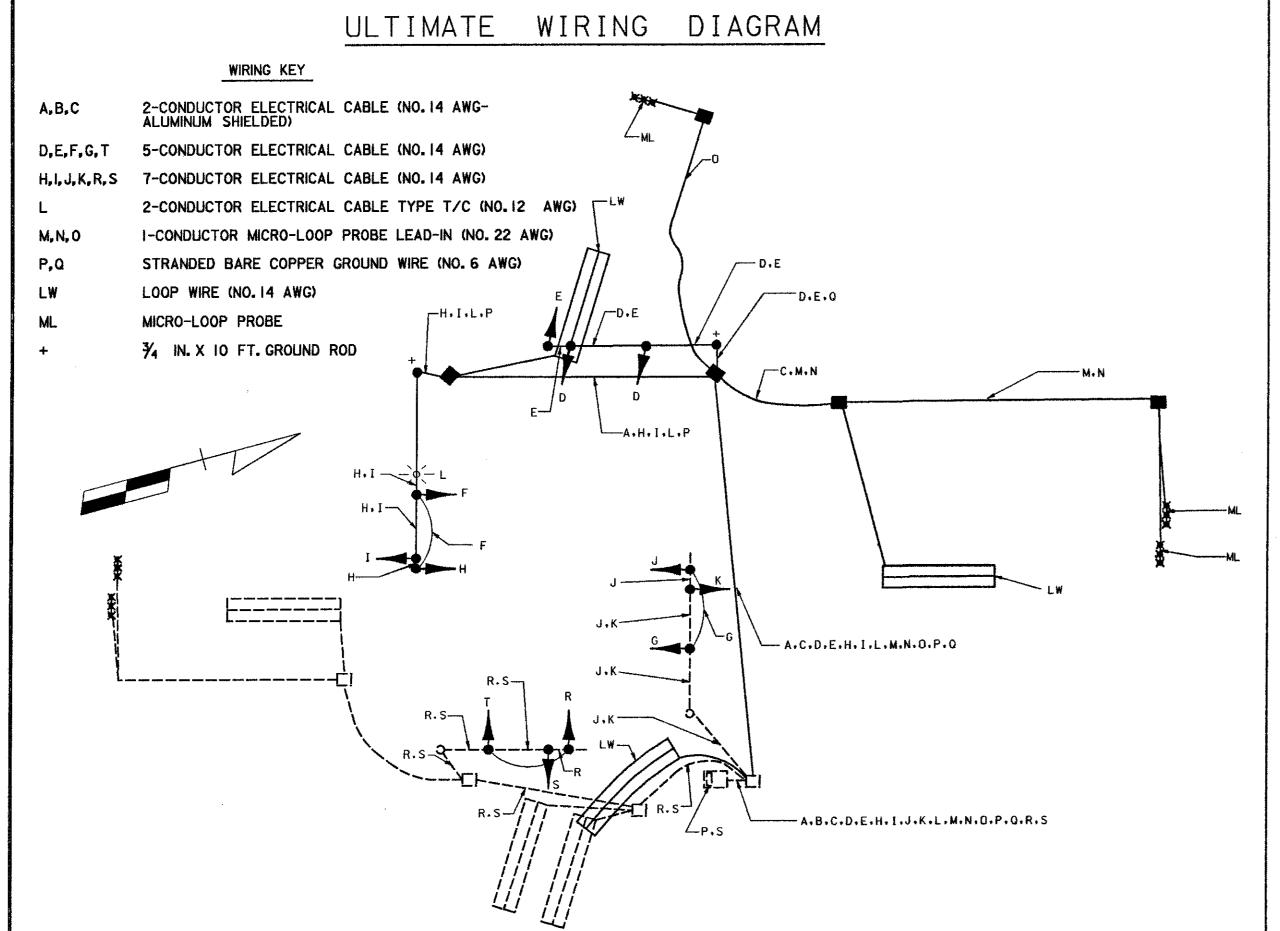
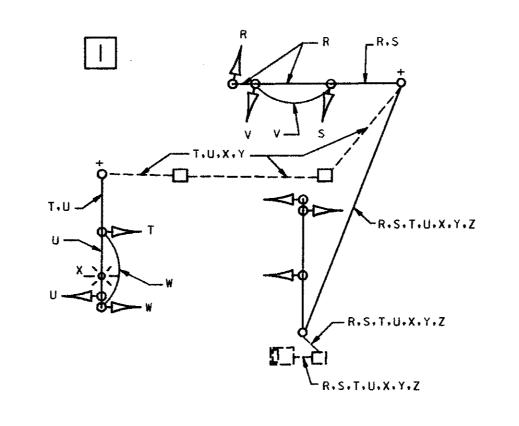
EQUIPMENT LIST "B" PROJECT DESCRIPTION B. Equipment to be Furnished and/or Installed by the Contractor. REVISION I NOTES PROJECT DESCRIPTION Item No. Specification Quantity THE CONSTRUCTION OF THE 24 IN. RCCP DRAINAGE STRUCTURE SHALL BE COMPLETED IN PHASE 1, PRIOR TO THE INSTALLATION Description PROJECT INVOLES GEOMETRIC IMPROVEMENTS TO MD 32, NORTH AND SOUTH OF THE INTERSECTION WITH AND COMPLETION OF THE PROPOSED SIGNAL EQUIPMENT. MD 99 AND OLD FREDERICK ROAD. MD 32 WILL BE WIDENED TO THE WEST. TO PROVIDE LEFT AND RIGHT TURN LANES. AS A RESULT OF THE WIDENING THE SIGNAL AT MD 32 AND MD 99 INTERSECTION WILL BE 24 Inch White Lead Free Reflective Thermoplastic Pavement Markings 585424 160 LF THEREFORE, THE EXISTING CONDUIT FROM THE EQUIPMENT 5014 UPGRADED WITH THE REMOVAL OF THE EXISTING SIGNAL POLES IN THE NORTHWEST AND SOUTHWEST CABINET IN THE NORTHEAST QUADRANT TO THE SIGNAL QUADRANTS, AND THE INSTALLATION OF NEW SIGNAL POLES AND MAST ARMS IN THE SAME QUADRANTS. 000008 3 EA F & I Micro-Loop Probe Set 1008 EQUIPMENT IN THE NORTHWEST QUADRANT IS IMPACTED BY THE PROPOSED MD 32 SIGNAL HEADS SHALL BE WIRED WITH 7-CONDUCTOR CABLE TO PROVIDE THE Remove and Dispose of Existing Material 000008 LEA 8002 THE PROPOSED CONSTRUCTION OPERATION. INFRASTRUCTURE FOR FUTURE EXPANSION TO E/P PHASING WHEN DEEMED NECESSARY. THE EXISTING 2 Inch Diameter Polyvinyl Electrical Conduit, Schedule 80, Trenched 800000 730 LF 8003 MD 32 SIGNAL HEADS ON THE MAST ARM IN THE NORTHEAST QUADRANT SHALL ALSO BE REWIRED WITH 8005 8008 Concrete for Signal Foundation THE CONTRACTOR SHALL INSTALL AN OVERHEAD MESSENGER CABLE BETWEEN THE TWO EXISTING SIGNAL POLES (IN NORTHEAST 801004 IO CY 7-CONDUCTOR CABLE FOR FUTURE EXPANSIONG. 27 SF 801605 Sheet Aluminum Signs-Mast Arm Mounted AND NORTHWEST QUADRANTS), AND TEMPORARILY REWIRE 890 350 LF No. 6 AWG Stranded Bare Copper Ground Wire 802501 8012 EXISTING SIGNAL EQUIPMENT ON WEST SIDE OF MD 32. I In. Electrical Conduit-Galvanized Sleeve 8013 805011 40 LF 805135 610 XX LF 3 Inch, Schedule 80 Rigid PVC Conduit, Trenched 8014 THE TEMPORARY REWIRING OF EXISTING SIGNAL HEADS SHALL INTERSECTION OPERATION 4 Inch Schedule 80 Rigid PVC Conduit - Slotted 805155 8015 255 % & LF BE COMPLETED DURING A NIGHT-TIME CONSTRUCTION AND TRAFFIC CONTROL OPERATION, TO MINIMIZE THE IMPACT TO 806002 1 EA 250 Watt H.P.S. Lamp & Luminaire Rectangular 8016 TRAFFIC (SEE TEMPORARY WIRING DIAGRAM - THIS SHEET). 100118 8 % EA F & I Electrical Handhole 8017 INTERSECTION OPERATION SHALL REMAIN THE SAME AS EXISTING CONDITIONS. Remove Electrical Handhole 8018 811002 6 X EA 818036 IEA Steel Pole with a Single 50' Mast Arm 8020 818041 ∧ I EA Steel Pole with a Single 60' Mast Arm 8021 ZI 2 EA Ground Rod -3/4" Diameter x 10 Foot Length 837001 8023 12 Inch Vehicular Traffic Signal Head Section 8026 860272 36 EA Cut, Clean, Galvanize and Cap Traffic Signal Structure CONTROLLER REQUIREMENTS 860292 2 EA 8027 Electrical Cable - 2 Conductor (Aluminum Shielded) 460 LF 8028 861104 Electrical Cable - 5 Conductor (No. 14 AWG) 8029 861107 1750 800 LF ALL PROPOSED SIGNAL HEAD WIRING SHALL BE BROUGHT BACK TO THE EXISTING CONTROLLER CABINET. Electrical Cable - 7 Conductor (No. 14 AWG) 1280 LF 861108 8030 Electrical Cable - 2 Conductor (No. 12 AWG) 861116 670 XXX LF 8031 Loop Wire Encased in Flexible Tubing (No.14 AWG) 862101 1400 LF 8032 Saw Cut for Signal (Loop Detector) 862102 500 LF 8033 20 Ft. Lighting Arm on Signal Structure 866104 I EA 8034 2 EA Weather Head, 3 Inch 8036 805050 869101 CONSTRUCTION DETAILS Steel Span Wire - 1/4 Inch Diameter 8037 100 LF Remove and Install Existing Interconnect Cable 1300 LF 8038 N/A P. INSTALL 3" WEATHER HEAD TO EXISTING SIGNAL POLE, AS DIRECTED BY THE 8039 4 EA Adjust Existing Handhole 802145 ENGINEER. Q. INSTALL OVERHEAD 1/4 INCH SPAN WIRE BETWEEN EXISTING SIGNAL POLES FOR TEMPORARY SIGNAL CABLES. R. REMOVE EXISTING WIRING FOR ALL SIGNAL HEADS AND LUMINAIRE. INSTALL NEW TEMPORARY WIRING FOR ALL SIGNAL HEADS AND LUMINAIRE FROM SIGNAL CONTROL CABINET TO EXISTING SIGNAL POLE IN NORTHEAST QUADRANT, OVERHEAD TO EXISTING SIGNAL POLE IN NORTHWEST QUADRANT (SEE TEMPORARY WIRING DIAGRAM - THIS SHEET). ALL TEMPORARY SIGNAL CONTROL CABLES SHALL BE INSTALLED INTERNAL TO THE EXISTING SIGNAL POLES. NO EXTERNAL CONDUITS/RISERS SHALL BE ALLOWED.



TEMPORARY WIRING DIAGRAM



WIRING KEY

R,S,T,U,V,W 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 AWG) 2-CONDUCTOR ELECTRICAL CABLE TYPE T/C (NO. 12 AWG) Y.Z STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)

PHASE CHART PHASE 2 & 6 G 2 & 6 CHANGE R PHASE 4 & 8 4 & 8 CHANGE FLASHING FL/Y | FL/Y | FL/Y | FL/R | FL/R | FL/R OPERATION

CONSULTANT BAILEY

CONSULTING ENGINEERS 849 FAIRMOUNT AVENUE SUITE 100 BALTIMORE, MD 21286 (410) 512-4500

MARYLAND DOT - STATE HIGHWAY ADMINISTRATION Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION TRAFFIC SIGNALIZATION GENERAL INFORMATION PLAN MD 32 AT MD 99 SOLITHROUND LANE WIDENING

(5_	SOUTHDOUGH LANE HIDENING					
IUE	DRAWN BY:	E.N.B.	F.A.P. NO.		STANDARD	
,	CHK. BY:	M.J.A.	S.H.A. NO.	H08495187	SHEET NO.:	SHEET NO.
	SCALE:	NONE	COUNTY	HOWARD		<u>28</u> _{0F} <u>3</u>

DWG. NO. SIG-2

REVISION NO. I MAY 17, 2002 ADDENDUM NO. 1